

pH (Hydrogen Ion) Electrometric Method SM 21 <sup>st</sup> 4500 H <sup>+</sup> B					Page 1 of 1
Facility Name: _____ VELAP ID: _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date: _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Is the meter accurate and reproducible to 0.1 pH unit and equipped with a temperature-compensation adjustment?	4500-H <sup>+</sup> B 2.a				
Is the electrode storage solution in accordance with manufacturer's instructions?	4500-H <sup>+</sup> B 4.a				
If a nonsealed electrode is used, is it filled with the correct electrolyte to the proper level?	4500-H <sup>+</sup> B 2.b				
Is the meter calibrated at least once daily (on days of use) following manufacturer's instructions?	4500-H <sup>+</sup> B 4.a				
Are buffer solutions within the listed expiration, or have they been prepared within the last four weeks?	4500-H <sup>+</sup> B 3.a				
Do the buffer solutions appear to be free of growths or contamination?	4500-H <sup>+</sup> B 3.a				
Is the cap or sleeve covering the access hole on the reference electrode removed when measuring pH?	Manufacturer's Instructions? (See method section 2.b)				
Is the sample stirred gently at a constant speed during measurement?	4500-H <sup>+</sup> B 4.b				
Does the meter hold a steady reading after reaching equilibrium?	4500-H <sup>+</sup> B 4.b				
Are the electrodes rinsed and blotted dry with a soft tissue before each reading? (Disregard if a portion of the next sample to be analyzed is used as a rinse.)	4500-H <sup>+</sup> B 4.a				
Is the temperature of buffer solutions and samples recorded when determining pH? ( <i>Only if using a meter with a temperature dial.</i> )	4500-H <sup>+</sup> B 4.a				
Following calibration, is a buffer analyzed as a check sample with an acceptable range of $\pm 0.1$ pH unit from the true value of the buffer?	4500-H <sup>+</sup> B 4.a				

Virginia Division of Consolidated Laboratory Services

Notes/ Comments: